

Superpave Academy

May 2-5, 2005 (#962)
May 23-26, 2005 (#963)

May sessions will be held at WSDOT's North Central
Region Materials Lab at 2830 Euclid Avenue,
Wenatchee, WA 98801 (509) 667-2800

June 20-23, 2005 (#991)

WSDOT Southwest Region Headquarters Materials Lab
11018 NE 51st Circle, Vancouver, WA 98682
(360) 905-2000

(The phone numbers above can be used in case of emergency to contact a person in the class.)

Cost: \$300

Day 1: 12:30 pm to 4:30 pm

Maximum Class Size: 12

Days 2-4: 8:00 am to 4:30 pm

Target Audience

The academy is designed for the transportation technician or engineer who is interested in attaining knowledge of Superpave mix design, testing of hot mix asphalt and aggregate properties.

Course Description

This course will provide the necessary knowledge to become a qualified tester in the required test methods.

Course Objectives

Participants will acquire knowledge and skills in the following areas:

- 1) Terms and acronyms associated with Superpave volumetric properties
- 2) Superpave mix design process and aggregate stockpile blending ratio
- 3) Plotting and interpretation of the FHWA 0.45 power gradation chart
- 4) Introduction to test methods for acceptance of Hot Mix Asphalt
- 5) Demonstration and hands on of Superpave gyratory compactor
- 6) Standardization of forms for use in volumetric calculations
- 7) Evaluation of volumetric properties

Agenda

- Day 1 12:30pm – 4:30 pm
Introduction
Expectations of academy and participants
Glossary and acronyms used with Superpave
Hot Mix Asphalt specifications for volumetrics
Superpave mix design process
- Day 2 8:00am – 4:30 pm
Review of previous day's learning
Superpave volumetric design for Hot Mix Asphalt
 - Design aggregate structure for trial blends
 - Estimate a trial binder contentSuperpave test methods for WSDOT specifications
Lunch



Prepare trial blends (hands-on in lab)

- Determine bulk specific gravity of aggregates by ASTM D6752
- Combine aggregate and binder
- Perform AASHTO T-312 using Pine Gyratory Compactor
- Perform AASHTO T-209

Calculation exercise of volumetric properties

Day 3

8:00am – 4:30pm

Performance of AASHTO T-166 (hands-on in lab)

Calculate volumetric properties of trial blend

Lunch

Aggregate tests (hands-on in lab)

- Performance of AASHTO T-304
- Performance of ASTM D4791
- Performance of WAQTC TM 1
- Record and document results on electronic form

Review test methods used for acceptance of HMA for volumetrics

Day 4

8:00am – 4:30pm

Perform acceptance testing on prepared HMA samples (hands-on in lab)

- Reduce sample to proper testing sizes (WSDOT TM 712)
- Determination of asphalt content (AASHTO T-308)
- Determine moisture content of bituminous mixture (WAQTC TM 6)
- Determination of maximum specific gravity of the mix (AASHTO T-209)
- Prepare Superpave gyratory specimen (AASHTO T-312)
- Determine the bulk specific gravity of the compacted mixture (AASHTO T 166)
- Determine aggregate gradations (AASHTO T 27/11)
- Calculate volumetric properties of the sample
- Record and document results on electronic form

Instructors

Tim Moomaw, WSDOT North Central Region Trainer and Mike Dellinger, WSDOT South Central Region Trainer.

Questions? Contact Laurel Gray at (360) 705-7355 or GrayL@wsdot.wa.gov.

Class Registration

Please register on-line using this link: [On-line Registration Form](#). Fill in the requested information*, select your class from the drop-down list, then press submit. A notice with driving directions to the training site is e-mailed when we process your request. **If you do not receive an e-mail within a day or two, you may not be registered and should contact us by phone or e-mail.**

Confirmation letters will be mailed three weeks prior to the class along with an invoice; please forward invoice to your accounting office. We would appreciate payment before the end of June in anticipation of the end of our biennium.

If you are unable to attend, someone else from your agency may attend in your place. To cancel your registration, or for assistance with registration, e-mail wst2center@wsdot.wa.gov or schmidw@wsdot.wa.gov or phone (360) 705-7386.



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* A “unique identifier” for each student is required when registering. It may contain 3 to 8 alpha/numeric characters. Our computer matches your last name and identifier, and automatically registers you into the class (providing there is space available).

Hotels in Wenatchee

Red Lion Hotel, 1225 N. Wenatchee Avenue, Wenatchee, WA 98801 (509) 663-0711

Comfort Inn, 815 N. Wenatchee Avenue, Wenatchee, WA 98801 (509) 662-1700

Hotels in Vancouver

Comfort Suites, 4714 NE 94th Ave., Vancouver, WA 98662. (360) 253-3100

Holiday Inn Express, 9107 NE Vancouver Mall Drive, Vancouver, WA 98662. (360) 253-5000

(Disability accommodations provided upon request.)

Washington State Technology Transfer Center's Web Page:

www.wsdot.wa.gov/TA/T2Center/t2hp.htm



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